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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/895,160	07/02/2001	Olof Malmstrom	1499/00048	1773
75	590 04/10/2002			
Burton A. Amernick			EXAMINER	
Connolly Bove Suite 800	Lodge & Hutz LLP		HALPERN, MARK	
1990 M Street, N.W. Washington, DC 20036-3425			ART UNIT	PAPER NUMBER
Washington, 2	- 20020 1 .22		1731	•
			DATE MAILED: 04/10/2002	_

Please find below and/or attached an Office communication concerning this application or proceeding.

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	Application No.	Applicant(s)
e f	09/895,160	MALMSTROM ET AL.
Office Action Summary	Examiner	Art Unit
	Mark Halpern	1731
The MAILING DATE of this communicatio	n appears on the cover sheet w	ith the correspondence address
Period for Reply	ICDLY IS SET TO EXPIRE 3 M	IONTH(S) FROM
A SHORTENED STATUTORY PERIOD FOR R THE MAILING DATE OF THIS COMMUNICATI Extensions of time may be available under the provisions of 37 C after SIX (6) MONTHS from the mailing date of this communicati If the period for reply specified above is less than thirty (30) days If NO period for reply is specified above, the maximum statutory Failure to reply within the set or extended period for reply will, by Any reply received by the Office later than three months after the earned patent term adjustment. See 37 CFR 1.704(b).	ON. FR 1.136(a). In no event, however, may a on. , a reply within the statutory minimum of thir period will apply and will expire SIX (6) MOI apply the application to become A	reply be timely filed ty (30) days will be considered timely. NTHS from the mailing date of this communication. RANDONED (35 U.S.C. § 133).
Status	•	·
1) Responsive to communication(s) filed or	This action is non-final.	
Za)		atters, prosecution as to the merits is
3) Since this application is in condition for a closed in accordance with the practice to Disposition of Claims	inder <i>Ex parte Quayle</i> , 1935 C	.D. 11, 453 O.G. 213.
4)⊠ Claim(s) <u>1-42</u> is/are pending in the appli	cation.	
4a) Of the above claim(s) is/are wi		
5) Claim(s) is/are allowed.		
6)⊠ Claim(s) <u>1-42</u> is/are rejected.		
7) Claim(s) is/are objected to.		
8) Claim(s) are subject to restriction	and/or election requirement.	,
Application Papers	aminor	
9) The specification is objected to by the Ex	arrimer.] accepted or b)☐ objected to by	the Examiner.
10) The drawing(s) filed on is/are: a) △ Applicant may not request that any objection		
Applicant may not request that any objection 11) The proposed drawing correction filed on	is: a) approved b)	disapproved by the Examiner.
If approved, corrected drawings are require	and in reply to this Office action.	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
12) The oath or declaration is objected to by		
Priority under 35 U.S.C. §§ 119 and 120 13) △ Acknowledgment is made of a claim for	foreign priority under 35 U.S.C	c, § 119(a)-(d) or (f).
	Toleign priority and a constraint	
a)⊠ All b)□ Some * c)□ None of: 1.□ Certified copies of the priority doc	numents have been received.	
2. ☑ Certified copies of the priority doc	numents have been received in	Application No. 09/380,752
3. ☐ Copies of the certified copies of t	he priority documents have be	en received in this National Stage
application from the Internation * See the attached detailed Office action for	or a list of the certified copies n	ot received.
14) ☐ Acknowledgment is made of a claim for o	domestic priority under 35 U.S.	C. § 119(e) (to a provisional application
a) The translation of the foreign langu	age provisional application has	s been received.
Attachment(s)		

U.S. Patent and Trademark Office PTO-326 (Rev. 04-01)

1) Notice of References Cited (PTO-892)
2) Notice of Draftsperson's Patent Drawing Review (PTO-948)
3) Information Disclosure Statement(s) (PTO-1449) Paper No(s)

6) Other:

4) Interview Summary (PTO-413) Paper No(s).

5) Notice of Informal Patent Application (PTO-152)

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DETAILED ACTION

1) The application was filed with a total of 42 claims, however due to errors in numbering of claims 35-46, the original numbering of the claims was erroneous. The originally filed claims were re-numbered as claims 1-42. Claims 35-46 have been renumbered, in view of the above noted error in numbering, as claims 31-42.

Specification

2) Cross Reference section, page 1, should indicate that application 09/380,752 has been abandoned.

Claim Rejections - 35 USC § 112

The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

3) Claims 6, 18, 32, are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

Claims 6, 18, 32, the basis of the numbers are not disclosed; are they, for example, weight percent, or pounds.

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Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 4) Claims 1-42, are rejected under 35 U.S.C. 102(b) as being anticipated by Brungardt (5,766,417).

Claims 1-2, 5, 13-14, 17, 19, 25-28, 31, 39; Brungardt ('417) discloses process for producing a paper for high speed converting or reprographic operations (col. 1, lines 1-15) in which 2-oxetatone is added (col. 3, lines 31-32) to the pulp slurry (col. 6, lines 12-16). The 2-oxetanone is prepared from such acids as palmitic, isostearic and stearic saturated fatty acids (col. 4, lines 57-67) with the saturated bond linear-chain and branched-chain comprising 2 to 40 carbon atoms (col. 4, lines 14-28). Paper made is disclosed in examples.

Claims 3, 15, 29; linear to branch chain fatty acid ratios are disclosed in examples.

Claims 4, 16, 30; the amounts of 2-oxetanone size added to the slurry is disclosed as 25-70 % (col. 4, lines 36-40).

Claims 6, 18, 32; the 2-oxetanone size is added at the rate of 1.5 pounds per ton per to of fiber weight (col. 6, lines 55-64).

Claims 7, 33; additionally alkenyl succinic anhydrides are added to the web (col. 3, lines 40-45, and col. 5 line 26 to col. 6, line 27). The R and R" components of the 2-

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oxetanone of formula disclosed by Brungardt (col. 4, lines 14-31) are hydrophobic, making the size a hydrophobizing size.

Claims 8-10, 20-22, 34-36; Brungardt discloses a mineral filler as precipitated calcium carbonate (col. 8, lines 1-9).

Claims 11-12, 23-24, 37-38; the method is conducted under conditions bordering on neutral of pH of 7.8, and under alkaline conditions of pH of 8.0 (col. 8, lines 1-9).

Claims 40-42; a 2-oxetatone based paper size is disclosed.

Conclusion

- 5) The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. Brungardt (5,846,663) discloses the hydrophobic nature of 2-oxetanone.
- Any inquiry concerning this communication or earlier communications from the examiner should be directed to Mark Halpern whose telephone number is 703-305-4522. The examiner can normally be reached on Mon-Fri, (9:00-5:30).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Stanley Silverman can be reached on 703-308-3837. The fax phone numbers for the organization where this application or proceeding is assigned are 703-308-7718 for regular communications and 703-305-3599 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone no. is 703-308-0651.

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MN

Mark Halpern Patent Examiner Art Unit 1731

April 5, 2002

PETER CHIN PRIMARY EXAMINER